

N74368B US HF HXJ amended seq listing - Jul 11.txt
SEQUENCE LISTING

<110> ST GEORGE'S HOSPITAL MEDICAL SCHOOL

<120> DIAGNOSTICS AND VACCINES FOR MYCOBACTERIAL INFECTIONS
OF ANIMALS AND HUMANS

<130> N74368B DMG

<140> US 09/646,568

<141> 2000-09-11

<150> PCT/GB99/00849

<151> 1999-03-18

<150> UK 9806093.2

<151> 1998-03-20

<160> 7

<170> PatentIn Ver. 2.1

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<212> DNA

<213> Mycobacterium avium

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<212> PRT

<213> Mycobacterium avium

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Pro Gln Leu₃₅ Ala Ala Glu Ser Gly₄₀ Cys Lys Gly Val Arg₄₅ Ser Leu Ser
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 Pro Arg Ala Asn Ala Leu₇₀ Asn Ala Trp Arg Leu₇₅ Val Leu Ala Ser Gly₈₀
 Val Ile Leu Trp His₈₅ Ser Phe Pro Leu Thr₉₀ Gly Arg Met Pro Trp Ala₉₅
 Pro Phe Val Gln₁₀₀ Leu Leu Gly Leu Gly₁₀₅ Cys Val Asp Gly Phe₁₁₀ Phe Ala
 Val Ser Gly₁₁₅ Tyr Leu Ile Val Ser₁₂₀ Ser Trp Leu Arg Asn₁₂₅ Pro His Pro
 Ala Gln Tyr Phe Thr Ala Arg₁₃₅ Cys Leu Arg Ile Leu₁₄₀ Pro Gly Leu Trp
 Ile Cys Leu Ile Leu Thr₁₅₀ Ala Phe Val Ile Ala₁₅₅ Pro Ile Gly Val Gly₁₆₀
 Ala Gln Gly Gly Ser₁₆₅ Ala Ala Lys Leu Leu₁₇₀ Met Ser Gly Ala Pro₁₇₅ Ile
 Glu Tyr Val Leu₁₈₀ Lys Asp Ser Ala Val₁₈₅ Trp Met Val Lys Phe₁₉₀ Asp Ile
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 Phe Gly Met Leu Gly Leu₂₃₀ Leu Ser Arg Arg Trp₂₃₅ Phe Val Pro Gly Ile₂₄₀
 Leu Ile Leu Ala Leu₂₄₅ Ser Trp Ser Val Phe₂₅₀ Leu Pro Ala Trp Gly₂₅₅
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 Ala Gly Ala Leu₂₇₅ Leu Tyr Gln Phe Arg Asn Val Ile₂₈₅ Pro Ala Arg Trp
 Ser Phe Val Ala Val Gly Leu₂₉₅ Ile Ile Val Val₃₀₀ Ser Ser Ala Val
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Ile Glu Arg Ala Glu Ala Gly Gly Ala Pro Pro Arg Glu Pro Arg Pro
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Arg Asn Leu Asp Ala Phe Thr Asp Leu Val Ala Thr Arg Val Glu Lys
85 90 95
Ser His Gly Lys Met Ser Ala Lys Arg Met Leu Pro Ile Ala Arg Ala
100 105 110
Ala Gly Tyr Gln Gly Ser Ala Arg Asn Phe Arg Arg Leu Val Ala Glu
115 120 125
Gln Glu Val Trp Trp Arg Asn Ala Asn Arg His Gln Arg Arg Pro Ala
130 135 140
Val Trp Ser Pro Gly Asp Tyr Leu Val Met Asp Trp Ala Glu Ala Ala
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Pro Gly Leu Met Val Leu Cys Ala Glu Leu Ala Tyr Ser Arg Trp Arg
165 170 175
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Ala Asp Arg Met Gly Cys Leu Lys Gly Gly Val Val Ala Asn Val Val
210 215 220
Val Pro Thr Pro Asp Tyr Val Arg Phe Ala Ser His Tyr Gly Phe Val
225 230 235 240
Pro Asp Phe Cys His Gly Ala Asp Pro Gln Ser Lys Gly Ile Val Glu
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260 265 270
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275 280 285
Gln Ala Gln Leu Trp Cys Ala Glu Val Asn Ala Thr Val His Ser Glu
290 295 300
Ile Cys Ala Val Pro Asn Asp Arg Leu Val Asp Glu Arg Thr Val Leu
305 310 315 320
Arg Glu Leu Pro Ser Leu Arg Pro Thr Ile Gly Ser Gly Ser Val Arg
325 330 335
Arg Lys Val Asp Gly Leu Ser Cys Ile Arg Tyr Gly Ser Ala Arg Tyr
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Ser Val Pro Gln Arg Leu Val Gly Ala Thr Val Ala Val Val Val Asp
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 370 375 380

Glu His Glu Leu Val Ser Pro Gly Glu Val Ser Ile Leu Asp Glu His
 385 390 395 400

Tyr Asp Gly Pro Arg Pro Ala Pro Ser Arg Gly Pro Arg Pro Lys Thr
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Gln Ala Glu Lys Arg Phe Cys Ala Leu Gly Thr Glu Ala Gln Gln Phe
 420 425 430

Leu Val Gly Ala Ala Ala Ile Gly Asn Thr Arg Leu Lys Ser Glu Leu
 435 440 445

Asp Ile Leu Leu Gly Leu Gly Ala Ala His Gly Glu Gln Ala Leu Ile
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